Year 3 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2020-June 30, 2021

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2020 and June 30, 2021 unless otherwise requested.

Part I: Contact Information

Name	of Municipality or Organi	zation: Town of Norw	vell	
EPA NPDES Permit Number: MAR041052				
Prima	ry MS4 Program Manag	er Contact Informat	tion	
Name:	e: Glenn Ferguson		Title: Highway Director	
Street Address Line 1: Town of Norwell				
Street Address Line 2: 345 Main Street				
City:	Norwell	State: MA	Zip Code: 02061	
Email:	glenn.ferguson@townofn	orwell.net	Phone Number: (781) 645-7710	
Storm	water Management Prog	ram (SWMP) Infor	mation	
SWMP Location (web address): https://norwelldpw.com/engineering				
Date SWMP was Last Updated: June 2020				
If the S	SWMP is not available on	the web please provide	de the physical address:	

Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state

Impairment((<u>s</u>)			
	⋈ Bacteria/Pathogens☐ Solids/ Oil/ Grease (Hyd	☐ Chloride (rocarbons)/ Metal	☐ Nitrogen	☐ Phosphorus
TMDL(s)				
In State:	☐ Assabet River Phosphoru☐ Charles River Watershed		eria and Pathogen Lake and Po	☐ Cape Cod Nitrogen ond Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
				Clear Impairments and TMDLs
Year 3 Requi	dditional information will be rements ted and screened all outfalls/i	•		and Excluded outfalls)
•				
-	ed outfall/interconnection price			
	er inspections as necessary	ouses		on conceed daring the dry
	onstruction bylaw, ordinance, ermit requirements	or other regulator	ry mechanism was	s updated and adopted consistent
any additional impacts of C		of the above year 3 requirement that of	requirements cou could not be comp	
Annual Requi	irements			
\bowtie Provid with S	led an opportunity for public p tate Public Notice requiremen	participation in rev	view and impleme	ntation of SWMP and complied
⊠ Kept r	ecords relating to the permit a	available for 5 yea	rs and made avail	able to the public
	SO inventory has been update mented	d, including the st	atus of mitigation	and corrective measures
	• This is not applicable be	cause we do not h	ave sanitary sewe	r
	○ This is not applicable be	cause we did not t	find any new SSO	S

Town of Norwell Page 3
 The updated SSO inventory is attached to the email submission
The updated SSO inventory can be found at the following website:
Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
⋈ All curbed roadways were swept at least once within the reporting period
⊠ Updated system map due in year 2 as necessary
Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
□ Updated inventory of all permittee owned facilities as necessary
⋈ O&M programs for all permittee owned facilities have been completed and updated as necessary
Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
<i>Optional:</i> If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Page 3

Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable) **Annual Requirements**

Public Education and Outreach*

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria
- * Public education messages can be combined with other public education requirements as applicable (see *Appendix H and F for more information)*

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:
Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

Part III: Receiving Waters/Impaired Waters/TMDL

Have you make submitted?	ade any changes to your lists of receiving waters, outfalls, or impairments since the NOI was	
	○ Yes	
	No No	
If yes, describe below, including any relevant impairments or TMDLs:		

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education

Town of Norwell	Page 7	
Measurable Goal(s):		
There were 135 rain barrels sold with 9 sold to residents of Norwell.		
Message Date(s): March 2021		
Message Completed for: Appendix F Requirements Appendix H Requirements]	
Was this message different than what was proposed in your NOI? Yes O No •		
If yes, describe why the change was made:		
BMP: Gardening Green Expo		
Message Description and Distribution Method:		
Due to the Covid-19 pandemic, the Gardening Green Expo had to go virtual. We had a we live sessions each day as well as prerecorded speaker videos that were posted online as we for rain barrels, had downloadable water saving plant lists, and also reposted last years' spalso had a drawing for free products and prizes including a a custom water-saving garden of people registered for that drawing.	ll. We took orders eaker videos. We	
Targeted Audience: Residents		
Responsible Department/Parties: NSRWA		
Measurable Goal(s):		
There were 639 live attendees, as well as 1,007 YouTube viewers. The speaker videos onlipage views.	ine had 4,170 web	
Message Date(s): March 2021		
Message Completed for: Appendix F Requirements ⊠ Appendix H Requirements ⊠	7	
Was this message different than what was proposed in your NOI? Yes ○ No ●		
If yes, describe why the change was made:		
BMP: Greenscapes Guide		
Message Description and Distribution Method:		
Due to the Covid-19 pandemic, the Greenscapes Guide could not be handed out at Garden. The downloadable Greenscapes Guide was promoted online and on the NSRWA Facebook promoted on the Norwell Social Facebook page. This was a digital download of landscapin reduce stormwater pollutants (fertilizers, pesticides, herbicides).	k page. It was also	
Targeted Audience: Residents		

Responsible Department/Parties: NSRWA		
Measurable Goal(s):		
There were 118 total downloads with 4 from Norwell.		
Message Date(s): Posted online for the duration of the year.		
Message Completed for: Appendix F Requirements ⊠ Appendix H Requirements ⊠		
Was this message different than what was proposed in your NOI? Yes ○ No ●		
If yes, describe why the change was made:		
BMP: Fertilizer Message for Residents Message Description and Distribution Method: A message about fertilizer was posted on the NSRWA Facebook page. Highlighted the legality and harm behind adding fertilizer containing phosphorus.		
Targeted Audience: Residents		
Responsible Department/Parties: NSRWA		
Measurable Goal(s):		
The You're Just Not Fertilizing the Lawn! post had a reach of 32,922 people and 2,697 engagements. The post was boosted in Norwell for \$50/10 days with a reach of 2,885 people and 162 engagements. There were also 209 page views on the stormwater web pages.		
Message Date(s): May 2021		
Message Completed for: Appendix F Requirements ⊠ Appendix H Requirements ⊠ Was this message different than what was proposed in your NOI? Yes ○ No ●		
If yes, describe why the change was made:		
BMP: Grass Clippings for Residents		
Message Description and Distribution Method:		
A grass clippings message was posted on the NSRWA Facebook page. Encourages homeowners to leave grass clippings on the yard instead of bagging them in order to help mitigate the issues of algal blooms in local lakes, ponds, and streams due to the high nutrient levels (nitrogen and phosphorus) in grass clippings.		
Targeted Audience: Residents		

Town of Norwell

Page 8

Responsible Department/Parties: NSRWA		
Measurable Goal(s):		
The grass clippings message had a reach of 121,097 people and 24,424 engagements. It was posted on the Norwell Social Facebook page with 5 engagements. There were also 16 page views on the Know Before You Mow! web page, 101 page views on the Best Mowing Practices web page, and 209 page views on the stormwater web pages.		
Message Date(s): June 2021		
Message Completed for: Appendix F Requirements ⊠ Appendix H Requirements ⊠		
Was this message different than what was proposed in your NOI? Yes ○ No ● If yes, describe why the change was made:		
BMP: Pet Waste Outreach Program Message Description and Distribution Method:		
A post was created and posted on the NSRWA Facebook page and on the Norwell Social Facebook page. An article was written on Addressing the Dog Waste Problem on the South Shore. This was sent to The Globe, the Patriot Ledger, Wicked Local, and the Norwell Mariner. There was also a live interview done on WATD. The media post emulates the concern of improper disposal of pet waste on the South Shore. As a result, the NSRWA encourages community members to read more about proper pet waste handling on the NSRWA website.		
Targeted Audience: Residents		
Responsible Department/Parties: NSRWA		
Measurable Goal(s):		
Pet waste Scoop It cards were distributed to the town clerk's office (100), Norwell Veterinary Hospital (100), and Devine Feed and Pet (100). There were 66 page views on The Problem of Dog Waste on the South Shore web page, and 243 page views on the Pet Waste Education page.		
Message Date(s): June 2021		
Message Completed for: Appendix F Requirements ⊠ Appendix H Requirements ⊠ Was this message different than what was proposed in your NOI? Yes ○ No ●		
If yes, describe why the change was made:		

Page 9

Town of Norwell

Message Description and Distribution Method: A press release on septic maintenance went out to the town, The Globe, the Patriot Ledger, Wicked Local, and the Norwell Mariner. Also a Facebook post. Highlighted the importance of proper septic system use and the disadvantages and issues to be aware of with improper maintenance procedures. Targeted Audience: Residents Responsible Department/Parties: NSRWA Measurable Goal(s): Facebook post was boosted in September with a \$50 ad targeted to Norwell with a reach of 8,196 people and 321 engagements. Message Date(s): September 2020 Message Completed for: Appendix F Requirements ⊠ Appendix H Requirements ⊠ Was this message different than what was proposed in your NOI? Yes O No • If yes, describe why the change was made: **BMP: Leaf Litter for Residents** Message Description and Distribution Method: A message about leaf litter was posted on the NSRWA Facebook page explaining the issues of blowing, sweeping, or dumping grass and yard waste into street and/or storm drains. The message was distributed through social media posts. Targeted Audience: Residents Responsible Department/Parties: NSRWA Measurable Goal(s): The Don't Blow It! message had a reach of 32,252 people and 3,431 engagements. The Facebook post was also boosted in Norwell with a \$50 ad for 10 days with a reach of 1,248 people and 53 engagements. Message Date(s): October 2020 Appendix F Requirements ⊠ Appendix H Requirements ⋈ Message Completed for: Was this message different than what was proposed in your NOI? Yes \cap No \cdot \infty If yes, describe why the change was made:

Page 10

Town of Norwell

Town of Norwell Page 11
Message Description and Distribution Method:
A brochure entitled Construction Stormwater Pollution Prevention Guide was created and delivered to all of the town departments who issue permits, including Building, Conservation, and the Board of Health.
Targeted Audience: Developers (construction)
Responsible Department/Parties: NSRWA and Town Departments
Measurable Goal(s):
These brochures are handed to people when they receive their permit.
Message Date(s): Year round
Message Completed for: Appendix F Requirements Appendix H Requirements
Was this message different than what was proposed in your NOI? Yes ○ No ●
If yes, describe why the change was made:
BMP: Proper Management of Waste Materials and Dumpsters Message Description and Distribution Method:
A 6" X 11" postcard was created and mailed to all of the Businesses, Institutions, Commercial Facilities and Industrial Facilities in Norwell. There was a checklist of best practices on dumpster mainenance for companies to use on the postcard. It also included an online contest for people who respond to the questionnaire.
Targeted Audience: Businesses, institutions and commercial facilities; Industrial facilities
Responsible Department/Parties: NSRWA
Measurable Goal(s):
There were 526 postcards mailed in Norwell.
Message Date(s): 2020-2021
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐
Was this message different than what was proposed in your NOI? Yes O No •
If yes, describe why the change was made:

Γown of Norwell	Page 12
Message Description and Distribution Method:	
The NSRWA also received a WMA Grant on behalf of the WaterSmart towns. For this grant NSRW produced a series of videos, an online pledge, and lawn signs on lawn watering. This campaign will through the end of August.	
Targeted Audience: Residents	
Responsible Department/Parties: NSRWA	
Measurable Goal(s):	
As of June 15, there have been 16,990 people reached and 232 engagements on Facebook in Norwell. There have also been 863 YouTube views.	
Message Date(s): 2021	
Message Completed for: Appendix F Requirements □ Appendix H Requirements □	
Was this message different than what was proposed in your NOI? Yes ○ No ●	
If yes, describe why the change was made:	
Add an Educational Message	
MCM2: Public Participation	
Describe the opportunity provided for public involvement in the development of the Stormwater Ma Program (SWMP) during this reporting period :	ınagement
The SWMP is posted to the Town website with contact information for questions/comments.	
Was this opportunity different than what was proposed in your NOI? Yes O No Describe any other public involvement or participation opportunities conducted during this reporti	

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer O	verflows (SSOs)
•	pelow if the statement is true.
⊠ Thi	s SSO section is NOT applicable because we DO NOT have sanitary sewer
Below, report on th	ne number of SSOs identified in the MS4 system and removed during this reporting period.
Nu	mber of SSOs identified: 0
Nui	mber of SSOs removed: 0
MS4 System Map	ping
Optional: Provide	additional status information regarding your map:
Ü	alls/Interconnections
•	e submit any outfall monitoring results from this reporting period. Outfall monitoring ude the date, outfall/interconnection identifier, location, weather conditions at time of
	ation in previous 48 hours, field screening parameter results, and results from all analyses.
	the updated inventory and ranking of outfalls/interconnections based on monitoring results.
	outfalls were inspected
	e outfall screening data is attached to the email submission
	e outfall screening data can be found at the following website:
	Total will be a second of the
Relow report on th	ne number of outfalls/interconnections screened during this reporting period.
•	
Nui	mber of outfalls screened: 30
Below, report on th	ne percent of outfalls/interconnections screened to date.
Per	cent of outfalls screened: 100
Optional: Provide	additional information regarding your outfall/interconnection screening:

Catchment Investigations

If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.

Town of Norwell			Page 14
•	No catchment investigations were conducted	d	
0	The catchment investigation data is attached		ail submission
0	The catchment investigation data can be fou		
Below, report	on the number of catchment investigations co	mpleted du	uring this reporting period.
	Number of catchment investigations comple	ted this rep	porting period: 0
Below, report	on the percent of catchments investigated to a	late.	
	Percent of total catchments investigated: 4		
Optional: Prov	vide any additional information for clarity reg	garding the	catchment investigations below:
period, and cut date of discove schedule of ren	rges were found, please submit a document d mulative to date, including location source; a ery; and date of elimination, mitigation, or en	description forcement	of the discharge; method of discovery; OR planned corrective measures and mail submission
_	on the number of illicit discharges identified on the number of illicit	and remove	ed, along with the volume of sewage
	Number of illicit discharges identified: 0		
	Number of illicit discharges removed: 0		
	Estimated volume of sewage removed: 0	g	allons/day
	on the total number of illicit discharges ident illicit discharges identified and removed sinc	v	<u> </u>
	Total number of illicit discharges identified:	0	
	Total number of illicit discharges removed:	0	
-	vide any additional information for clarity regremoved below:	garding illic	cit discharges identified, removed, or

Employee Training			
Describe the frequency and type of employee training conducted during this reporting period :			
Annual training for all highway staff including safety and IDDE was held in May 2021. The highway department staff also meets quarterly with good housekeeping discussed as issues arise at these meetings.			
MCM4: Construction Site Stormwater Runoff Control Below, report on the construction site plan reviews, inspections, and enforcement actions completed during this reporting period.			
Number of site plan reviews completed: 12			
Number of inspections completed: 118			
Number of enforcement actions taken: 0			
Optional: Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:			
MCM5: Post-Construction Stormwater Management in New Development and Redevelopment			
As-built Drawings			
Below, report on the number of as-built drawings received during this reporting period.			
Number of as-built drawings received: 0			
Optional: Enter any additional information relevant to the submission of as-built drawings:			

Street Design and Parking Lots Report

Town of Norwell Page 16 Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines: To be completed in Year 4. **Green Infrastructure Report** Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable: To be completed in Year 4. **Retrofit Properties Inventory** Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted: An inventory of permittee-owned facilities was developed in Year 2. The inventory effort included site visits and drainage infrastructure mapping. The information collected can be further evaluated to identify potential retrofit properties. MCM6: Good Housekeeping **Catch Basin Cleaning** Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins during this reporting period. Number of catch basins inspected: 1,400 Number of catch basins cleaned: 1,400 Total volume or mass of material removed from all catch basins: 0 [Select Units]

Below, report on the total number of catch basins in the MS4 system.

Total number of catch basins: 1,400

If applicable:

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

The Town contracts catch basin inspection and cleaning to TRUAX. They report on catch basins needing repair/maintenance and those that are excessively full at the time of cleaning. All catch basins were cleaned in

the Fall of 2020 and none were reported to be excessively full or in need of maintenance. Records were kept of catch basin materials however total are not available at this time. The Town has a number of drywell systems associated with roadway drainage that were cleaned out as well and found to be in good condition.

Street	Swee	ning
~	~ 11 00	

Report on street sweeping completed during t	his reporting period using <u>one</u> of the three metrics below.		
Number of miles cleaned: 80			
O Volume of material removed:	[Select Units]		
Weight of material removed:	[Select Units]		
Stormwater Pollution Prevention Plan (SW	(PPP)		
Below, report on the number of site inspection reporting period.	as for facilities that require a SWPPP completed during this		
Number of site inspections con	mpleted: 3		
Describe any corrective actions taken at a fac	ility with a SWPPP:		
was identified in the salt shed and repaired to	ras installed to improve SWPPP conditions. In the spring, a hole prevent exposure to stormwater. In the summer, the tight tank ected and erosion controls were installed for a building upgrade		
Monitoring or Study Results Results from any other stormwater or receiving	ditional Information ag water quality monitoring or studies conducted during the ove, where the data is being used to inform permit compliance or		
Not applicable			
 The results from additional reports or studies are attached to the email submission The results from additional reports or studies can be found at the following website(s): 			
<u> </u>	on your behalf or if monitoring or studies conducted by other on of the type of information gathered or received shall be		

	1 1	• . •	1.1		4 •
Δ	ИN	ifinn	าดเ	ntor	mation
7 P	uu		шл		manu

<i>Optional:</i> Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:
COVID-19 Impacts
Optional: If any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ⊠

- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted

- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)

Pro	Provide any additional details on activities planned for permit year 4 below:					

Part V: Certification of Small MS4 Annual Report 2021

40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:	Glenn Ferguson	Title:	Highway Director
	Signatory may be a duly authorized	Date:	